Missouri Assessment Program
Spring 2001

Mathematics

Released Items
Grade 10

3 Kelly went to an amusement park. The table below shows the entrance fee and the cost of the rides.

Kelly spent $32.50, including the entrance fee. If he went on an equal number of long rides and short rides, how many short rides did Kelly go on? In the space below, use an algebraic equation to show how you arrived at your answer.

VACATION PLAN

Directions

Do Number 11 about a vacation plan. Show all of your work and write your answers directly in this book.

11 The projected average costs, in dollars, of lodging, airfare, and food for a one-week vacation at three popular regions for the years 1, 2, and 3 are shown below.

LODGING

Region	Year 1	2	3
A	992	998	1098
B	1021	1001	1124
C	679	742	863

ROUND-TRIP AIRFARE (tax not included)

Region	Year 1	2	3
A	963	895	1021
B	373	375	390
C	507	602	657

FOOD

Region	Year 1	2	3
A	251	278	319
B	181	197	217
C	289	297	328

The Jansons want to take a one-week vacation to one of these regions during one of the three years shown. They have a budget of $1800.

List all the regions to which they can go and in what years, based on the costs of lodging, round-trip airfare, and food. There is a 10% tax on the airfare. Be sure to show all of your work to justify your plan.

STOP

10 The traffic light at Sixth Avenue turns green every 4 minutes. The light at Eighth Avenue turns green every 5 minutes. If both lights just turned green, how many minutes will pass until they turn green at the same time again? In the space below, provide the work that shows how you arrived at your answer.